

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Dock t No. 42P17959
(maximum 12 characters)

First Named Inventor Naik et al.

Title: OPTIMIZED BACK-TO-BACK ENQUEUE/DEQUEUE VIA PHYSICAL QUEUE PARALLELISM

Express Mail Label No. EV320119515US

ADDRESS TO: Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ **Fee Transmittal Form (e.g., PTO/SB/17)**
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant Claims Small Entity Status. (37 CFR 1.27)
3. ☒ **Specification (Total Pages 28)**
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ **Drawings(s) (35 USC 113) (Total Sheets 6)**
5. ☐ Oath or Declaration (Total Pages)
 - a. ☐ Newly Executed (Original or Copy)
 - b. ☐ Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 18 completed)
 - i. ☐ DELETIONS OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. ☐ Unsigned.
6. ☐ Application Data Sheet. (37 CFR 1.76)
7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. ☐ Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. _____ Assignment Papers (cover sheet & documents(s))
10. _____ a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
 _____ b. Power of Attorney
11. _____ English Translation Document (if applicable)
12. _____ a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
 _____ b. Copies of IDS Citations
13. _____ Preliminary Amendment
14. X **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. _____ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. _____ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A. _____ Claim for Foreign Priority
- 17B. X **Other: separate sheet with title, express mail label number, copy of postcard, and attorney's signature**

17C. X Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title (e.g., by way of preliminary amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:

_____ Continuation _____ Divisional _____ Continuation-in-part (CIP)
 Of Prior Application No.: _____ Examiner _____ Group Art Unit _____
 (which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____,
 which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. Correspondence Address
 _____ Customer Number or Bar Code Label _____
 or _____ (Insert Customer No. or Attach Bar Code Label
 here)

 X Correspondence Address Below

NAME Cory G. Claassen

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

ADDRESS 12400 Wilshire Boulevard
Seventh Floor

CITY Los Angeles

STATE California

ZIP CODE 90025

Country U.S.A.

TELEPHONE (206) 292-8600

FAX (206) 292-8606

Nam (PRINT/TYPE): Cory G. Claassen

Registration No.: 50,296

Signature: 

Date: Dec. 22, 2003



22855 U.S. PTO

122203

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 1,122.00

Complete if Known:

Application No. New Patent ApplicationFiling Date HerewithFirst Named Inventor Naik et al.Examiner Name Not yet assignedArt Unit Not yet assignedAttorney Docket No. 42P17959☐ Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name: _____

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Code</u>	<u>Fee (\$)</u>	<u>Code</u>	<u>Fee (\$)</u>		
1001	770	2001	385	Utility application filing fee	<u>770</u>
1002	340	2002	170	Design application filing fee	_____
1003	530	2003	265	Plant filing fee	_____
1004	770	2004	385	Reissue filing fee	_____
1005	160	2005	80	Provisional application filing fee	_____
SUBTOTAL (1) \$					<u>770</u>

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			<u>Extra Claims</u>		<u>Fee from below</u>	<u>Fee Paid</u>
Total Claims	<u>30</u>	- 20** =	<u>10</u>	X	<u>18</u>	= <u>180</u>
Independent Claims	<u>5</u>	- 3** =	<u>2</u>	X	<u>86</u>	= <u>172</u>
Multiple Dependent						= _____

**Or number previously paid, if greater; For Reissues, see below.

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>
<u>Code</u>	<u>Fee (\$)</u>	<u>Code</u>	<u>Fee (\$)</u>	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 352

3. ADDITIONAL FEES

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) \$ 0

***Reduced by Basic Filing Fee Paid**

SUBMITTED BY:

Typed or Printed Name: Cory G. Claassen

Signature: [Signature] Date: Dec. 22, 2003

Req. Number: 30,296 **Telephone Number:** (206) 292-8600

Send to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Our Reference: 42P17959


Patent

OPTIMIZED BACK-TO-BACK ENQUEUE/DEQUEUE VIA PHYSICAL QUEUE
PARALLELISM

Inventors: Uday R. Naik; Prashant R. Chandra;
Alok Kumar and Ameya S. Varde

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP



Cory G. Claassen
Reg. No. 50,296

"Express Mail" mailing label number: EV320119515US

Date of Deposit: December 22, 2003

I hereby certify that I am causing this paper or fee to be deposited with
the United States Postal Service "Express Mail Post Office to Addressee"
service on the date indicated above and that this paper or fee has been
addressed to Mail Stop Patent Application, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450

Adrian Villarreal

(Typed or printed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

December 22, 2003

(Date signed)

Serial/Patent No.: New Patent Application		Filing/Issue Date: Herewith
Client: Intel Corporation		
Title: OPTIMIZED BACK-TO-BACK ENQUEUE/DEQUEUE VIA PHYSICAL QUEUE PARALLELISM		
BSTZ File No.: 42P17959		Atty/Secty Initials: CGC/av
Date Mailed: December 22, 2003		Docket Due Date:
The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:		
<input type="checkbox"/> Amendment/Response (____ pgs.)	<input checked="" type="checkbox"/> Express Mail No. EV320119515US	<input checked="" type="checkbox"/> Check No. 3285
<input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate)	<input type="checkbox"/> _____ Month(s) Extension of Time	Amt: \$1122.00
<input checked="" type="checkbox"/> Application - Utility (28 pgs., with cover and abstract)	<input type="checkbox"/> Information Disclosure Statement & PTO-1449 (____ pg.)	<input type="checkbox"/> Check No. _____
<input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.)	<input type="checkbox"/> Issue Fee Transmittal	Amt: _____
<input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.)	<input type="checkbox"/> Notice of Appeal	
<input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.)	<input type="checkbox"/> Petition for Extension of Time	
<input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.)	<input type="checkbox"/> Petition for _____	
<input type="checkbox"/> Application - Design (____ pgs.)	<input checked="" type="checkbox"/> Postcard	
<input type="checkbox"/> Application - PCT (____ pgs.)	<input type="checkbox"/> Power of Attorney (____ pgs.)	
<input type="checkbox"/> Application - Provisional (____ pgs.)	<input type="checkbox"/> Preliminary Amendment (____ pg.)	
<input type="checkbox"/> Assignment and Cover Sheet	<input type="checkbox"/> Reply Brief (____ pgs.)	
<input checked="" type="checkbox"/> Certificate of Mailing	<input type="checkbox"/> Response to Notice of Missing Part	
<input type="checkbox"/> Declaration & POA (____ pgs.)	<input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business	
<input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.)	<input checked="" type="checkbox"/> Transmittal Letter, in duplicate	
<input checked="" type="checkbox"/> Drawings: 6 ft of sheets includes 12 figure	<input checked="" type="checkbox"/> Fee Transmittal, in duplicate	
<input checked="" type="checkbox"/> Other: Certificate of mailing with copy of return postcard signed by the attorney.		